

Upper Gila map being drafted

**TABLE 21. UPPER GILA WATERSHED – 2004 ASSESSMENT MONITORING DATA**

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEARS SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS (MEAN)	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
STREAM MONITORING DATA								
Ash Creek Unnamed tributary at 32°45'37"/ 109°52'22" - Gila River AZ15040005-040B A&Ww, FC, FBC, AgL	ADEQ Ambient Monitoring At Forest Road #307 UGA1H008.62 100830	1999 - 1 full suite 2000 - 2 partial suites 2002 - 2 full suites	No exceedances					Lab reporting limits for the dissolved metals. (cadmium, copper, and zinc) were too high to use results for assessment.
	Summary Row  A&Ww      Inconclusive FC          Attaining FBC          Attaining AgL          Attaining	1999 - 2002  5 sampling events	No exceedances					ADEQ collected 5 samples in 1999 - 2002. Assessed as "attaining some uses" and placed on the Planning List due to missing core parameters: dissolved metals (cadmium, copper, and zinc).
Blue River New Mexico border - KP Creek AZ15040004-026 A&Wc, FC, FBC, Agl, AgL	ADEQ TMDL Program Bobcat Flat (Site 5) UGBLR043.03 101184	2001 - 4 field	No exceedances					
	ADEQ TMDL Program Lazy YJ Ranch (Site 6) UGBLR042.69 101185	2001 - 4 field	Turbidity NTU	10 (A&Wc)	<1 - 13	1 of 4		
	ADEQ TMDL Program Below Nolan Creek (Site 7) UGBLR041.93 101186	2001 - 4 field	No exceedances					
	ADEQ TMDL Program Above Blue Crossing (Site 8) UGBLR039.84 101187	2001 - 4 field	No exceedances					
	ADEQ TMDL Program Below Blue Crossing (Site 9) UGBLR039.67 101188	2001 - 4 field	No exceedances					
	ADEQ TMDL Program Above Balke Crossing (Site 10) UGBLR035.10 101189	2001 - 4 field	No exceedances					
	ADEQ TMDL Program Below Balke Crossing (Site 11) UGBLR034.75 101190	2001 - 4 field	No exceedances					
	ADEQ Biocriteria & Ambient Monitoring Below Jackson Box (upper) UGBLR033.04 100419	1999 - 1 partial suite 2000 - 3 partial suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.0 - 7.2 (84 - 96%)	2 of 4		

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			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS (MEAN)	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	ADEQ TMDL Program Above Box (Site 12) UGBLR030.42 101191	2001 - 4 field	No exceedances					
	ADEQ TMDL Program Below Box (Site 13) UGBLR029.50 101192	2001 - 4 field	No exceedances					
	<b>Summary Row</b>	<b>1999-2001</b>	<b>Dissolved oxygen mg/L</b>	<b>&gt; 7.0 (90% saturation) (A&amp;Wc)</b>	<b>6.0 - 7.5 (84 - 102%)</b>	<b>2 of 22</b>	<b>Attaining</b>	<b>ADEQ collected 40 samples in 1999-2001, primarily in support of a turbidity investigation. Assessed as “attaining some uses” and placed on the Planning List due to missing core parameters: total boron, dissolved metals (copper, cadmium, and zinc), and total metals (mercury, manganese, copper, and lead).</b>
	<b>A&amp;Wc Inconclusive FC Inconclusive FBC Attaining Agl Inconclusive AgL Inconclusive</b>	<b>40 samples 8 sampling events</b>	<b>Turbidity NTU</b>	<b>10 (A&amp;Wc)</b>	<b>&lt;1 - 13</b>	<b>1 of 40</b>	<b>Attaining</b>	
Blue River KP Creek - Strayhorse Creek AZ15040004-025A A&Wc, FC, FBC, Agl, AgL	ADEQ Ambient Monitoring Below KP Creek UGBLR021.95 100835	1999 - 1 partial suite 2000 - 3 partial suites	No exceedances					
	<b>Summary Row</b>	<b>1999 - 2000</b>	<b>No exceedances</b>					<b>ADEQ collected 4 samples in 1999 - 2000. Assessed as “attaining some uses” and placed on the Planning List due to missing core parameters: total boron, dissolved metals (copper, cadmium, and zinc), and total metals (mercury, manganese, copper, and lead).</b>
Blue River Strayhorse Creek - San Francisco River AZ15040004-025B A&Ww, FC, FBC, Agl, AgL	ADEQ TMDL Program Above Fritz Ranch UGBLR008.07 100420	2001 - 3 field	No exceedances					
	ADEQ Fixed Station At Juan Miller Road UGBLR005.68 100398	1998 - 1 full suites 1999 - 5 full suites 2000 - 4 full suites 2000 - 4 full suites 2001 - 4 full suites	No exceedances					
	ADEQ TMDL Program Near Clifton UGBLR005.59 100770	2001 - 4 field	No exceedances					
	<b>Summary Row</b>	<b>1998-2002</b>	<b>No exceedances</b>					<b>ADEQ collected 25 samples at 3 sites from 1998-2002. Assessed as “attaining all uses.”</b>
	<b>A&amp;Ww Attaining FC Attaining FBC Attaining Agl Attaining AgL Attaining</b>	<b>25 samples 20 sampling events</b>						

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			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS (MEAN)	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
Bonita Creek Park Creek - Gila River AZ15040005-030 A&Ww, FC, FBC, DWS, AgL Unique Water	ADEQ Ambient Monitoring Below Indian Reservation boundary UGBON011.31 100188	1999 - 1 full suite 2000 - 1 full + 2 partial suites	No exceedances					
	ADEQ Ambient Monitoring Above Gila River UGBON000.20 100185	1999 - 1 partial suite 2000 - 1 full + 3 partial suites 2001 - 1 full + 1 partial suite 2002 - 1 full suite	Turbidity NTU	15 (Unique Water) (A&Ww)	<1 - 49	1 of 8		
	<b>Summary Row</b> A&Ww <b>Attaining</b> FC <b>Attaining</b> FBC <b>Attaining</b> DWS <b>Attaining</b> AgL <b>Attaining</b>	<b>1998-2002</b>  <b>12 samples</b> <b>11 sampling events</b>	Turbidity NTU	15 (Unique Water) (A&Ww)	<1 - 49	1 of 11	Attaining	ADEQ collected 12 samples at 2 sites in 1998-2002. Assessed as "attaining all uses."
Campbell Blue Creek headwaters - Blue River AZ15040004-028 A&Wc, FC, FBC, AgL	ADEQ TMDL Program Above Turkey Creek (site 2) UGCMB002.30 101181	2001 - 4 field	No exceedances					Lab reporting limits for some dissolved copper samples were too high to use results for assessment.
	ADEQ Ambient Monitoring Above K E Canyon UGCMB002.16 100522	1999 - 1 full suite 2000 - 2 full + 1 partial suites	No exceedances					
	ADEQ TMDL Program Below Turkey Creek (site 3) UGCMB001.46 101182	2001 - 4 field	No exceedances					
	ADEQ TMDL Program Above Dry Blue (site 4) UGCMB000.16 101183	2001 - 4 field	No exceedances					
	<b>Summary Row</b> A&Wc <b>Inconclusive</b> FC <b>Attaining</b> FBC <b>Attaining</b> AgL <b>Attaining</b>	<b>1999-2001</b>  <b>16 samples</b> <b>8 sampling events</b>	No exceedances					ADEQ collected 16 samples at 4 sites from 1999-2001. Assessed as "attaining some uses" and added to the Planning List due to missing core parameter: dissolved copper.

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			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS (MEAN)	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
Cave Creek headwaters - South Fork of Cave Creek AZ15040006-852A A&Wc, FC, FBC, Agl, AgL Unique Water	ADEQ Unique Waters Program Above Herb Martyr Campground UGCAV009.86 101108	1998 - 2 partial suites 1999 - 1 partial suite 2001 - 1 full suite 2002 - 1 full suite	No exceedances					
	ADEQ Unique Waters Program Above summer homes along FS Road 42A UGCAV008.92 101107	1998 - 1 partial suite 1999 - 1 partial suite	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.4 - 8.1 (81 - 92%)	1 of 2		Low dissolved oxygen due to naturally occurring ground water upwelling, and not anthropogenic causes. Not included in the final assessment.
	ADEQ Unique Waters Program Above SW Research Station UGCAV008.49 101106	1998 - 2 partial suites	No exceedances					
	ADEQ Unique Waters Program Above South Fork of Cave Creek UGCAV007.70 101105	1998 - 2 partial suites	No exceedances					
	ADEQ Unique Waters Program Below North Fork Cave Creek UGCAV007.64 100933	1998 - 1 partial suite 1999 - 1 full + 1 partial suite 2000 - 3 full + 1 partial suite 2001 - 1 full + 1 partial suite 2002 - 1 full suite	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.2 - 9.3 (78 - 107%)	1 of 10		Stream is dominated by thermal spring at low flows (and high total dissolved solids). Dissolved oxygen is naturally below surface water standards in such spring recharge areas. Therefore, low dissolved oxygen not included in final assessment.  Lab reporting limits for 8 other six selenium samples were too high to use results for assessment.
			Selenium (total) µg/L	2 (A&Wc chronic)	<5 - 8.8	2 of 2		
			Turbidity NTU	10 (A&Wc)	<1-15	1 of 10		
	Summary Row A&Wc Inconclusive FC Attaining FBC Attaining Agl Attaining AgL Attaining	1998-2002  21 samples 10 sampling events	Selenium (total) µg/L	2 (A&Wc chronic)	<5 - 8.8	2 of 2 events (insufficient events)	Inconclusive	ADEQ collected 21 samples at 5 sites in 1998-2002. Assessed as "attaining some uses" and placed on the Planning List due to selenium exceedances.
			Turbidity NTU	10 (A&Wc)	<1 - 15	1 of 18	Attaining	
Cave Creek South Fork of Cave Creek - USFS boundary AZ15040006-852B A&Ww, FC, FBC, Agl, AgL Unique Water	ADEQ Unique Waters Program Below South Fork of Cave Creek UGCAV007.46 101104	1998 - 2 partial suites	<i>Escherichia coli</i> CFU/100 ml	235 (FBC)	257	1 of 1		Exceedance occurred during very high flow (normally <1 cfs, flow at 65 cfs).

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			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS (MEAN)	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	ADEQ Unique Waters Program Below Coronado Ranger Station UGCAV006.55 100937	1998 - 2 partial suites 1999 - 1 full suite 2000 - 1 full + 2 partial suites 2001 - 2 full suites	Turbidity NTU	50 (A&Ww)	<1-64	1 of 8		Exceedance occurred during very high flow (normally <1 cfs, flow at 65 cfs).
	<b>Summary Row</b>	<b>1998-2001</b>	<i>Escherichia coli</i> CFU / 100 ml	235 (FBC)	257	1 of 8 events (None in the last 3 years of sampling)	Attaining	ADEQ collected 10 samples at 2 sites in 1998-2001. Assessed as "attaining some uses" and placed on the Planning List due to exceedance of the former turbidity standard. Turbidity and suspended sediment concentration (SSC) monitoring will be scheduled during the next monitoring cycle for this watershed.
	A&Ww Inconclusive FC Attaining FBC Attaining Agl Attaining AgL Attaining	10 samples 8 sampling events	Turbidity NTU	50 (A&Ww)	< 1 - 64	1 of 9	Inconclusive (see comment)	
Cave Creek, North Fork headwaters - Cave Creek AZ15040006-856 A&Wc, FC, FBC (tributary rule)	ADEQ Unique Waters Program Above Cave Creek UGNCV000.03 101129	1999 - 1 partial suite	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	5.3 (73%)	1 of 1		Low dissolved oxygen due to naturally occurring ground water upwelling at thermal spring, and not anthropogenic causes. Not included in the final assessment.  Missing core parameters: dissolved zinc and total mercury.
	<b>Summary Row</b> A&Wc Inconclusive FC Inconclusive FBC inconclusive	<b>1999</b>  1 sampling event	No exceedances				Not assessed	Insufficient monitoring data to assess.
Cave Creek, South Fork headwaters - Cave Creek AZ15040006-849 A&Wc, FC, FBC, Agl, AgL Unique Water	ADEQ Biocriteria Program Above South Fork Campground UGSCV002.45 100640	1998 - 1 partial suite	No exceedances					
	ADEQ Ambient Monitoring Above South Fork Campground UGSCV002.26 100639	1998 - 1 full + 1 partial suite 1999 - 2 full suites 2000 - 2 full + 2 partial suites 2001 - 2 full suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	3.6 - 8.8 (40 - 98%)	5 of 10		Low dissolved oxygen due to naturally occurring ground water upwelling, and not anthropogenic causes. Not included in the final assessment.
			<i>Escherichia coli</i> CFU/100 ml	235 (FBC)	<2 - 240	1 of 9		Exceedances coincided with very high flow (normally < 1 cfs, flow at 22 cfs). Pristine watershed.
			Turbidity NTU	10 (A&Wc)	<1 - 36	1 of 10		
	ADEQ Unique Waters Program Above confluence with Cave Creek UGSCV000.12 101109	1998 - 1 full + 1 partial suite	No exceedances					

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			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS (MEAN)	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	Summary Row	1998 - 2001	<i>Escherichia coli</i> CFU/100 ml	235 (FBC)	<2 - 240	1 of 10 events (in 2000)	Inconclusive	ADEQ collected 13 samples at 3 sites in 1998 - 2001. Assessed as "attaining some uses" and placed on the Planning List due to <i>Escherichia coli</i> exceedance.
	A&Wc    Attaining FC        Attaining FBC      Inconclusive Agl      Attaining AgL      Attaining	13 samples 10 sampling events	Turbidity NTU	10	< 1 - 36	1 of 13	Attaining	
Eagle Creek headwaters - unnamed tributary at 33°23'24" / 109°29'35" AZ15040005-028A A&Wc, FC, FBC, DWS, Agl, AgL	ADEQ Ambient Monitoring Above Honeymoon Campground UGEAG035.99 100535	1999 - 1 full suite 2000 - 1 full + 2 partial suites	No exceedances					
	Summary Row A&Wc    Inconclusive FC        Inconclusive FBC      Attaining DWS      Inconclusive Agl      Inconclusive AgL      Inconclusive	1999-2000 4 sampling events	No exceedances					ADEQ collected 4 samples in 1999-2000. Assessed as "attaining some uses" and placed on the Planning List due to missing core parameters: total boron, dissolved metals (copper, cadmium, and zinc), and total metals (mercury, arsenic, chromium, lead, manganese, and copper).
Eagle Creek Willow Creek - Sheep Wash AZ15040005-027 A&Ww, FC, FBC, DWS, Agl, AgL	ADEQ Ambient Monitoring Above Sheep Wash Crossing UGEAG023.34 100536	1999 - 1 full suite 2000 - 1 full + 2 partial suites 2002 - 1 full suite	No exceedances					
	Summary Row A&Ww    Attaining FC        Attaining FBC      Attaining DWS      Attaining Agl      Attaining AgL      Attaining	1999 - 2002 5 sampling events	No exceedances					ADEQ collected 5 samples in 1999-2002. Assessed as "attaining all uses."
Eagle Creek Sheep Wash - Gila River AZ15040005-025 A&Ww, FC, FBC, DWS, Agl, AgL	ADEQ Ambient Monitoring Below Gold Gulch @ Morenci UGEAG006.05 100806	1999 - 1 full suite 2000 - 1 full + 2 partial suites 2002 - 1 full suite	No exceedances					
	Summary Row A&Ww    Attaining FC        Attaining FBC      Attaining DWS      Attaining Agl      Attaining AgL      Attaining	1999 - 2002 5 sampling events	No exceedances					ADEQ collected 5 samples in 1999-2002. Assessed as "attaining all uses."

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			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS (MEAN)	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
East Turkey Creek headwaters - tributary at 31°58'22" / 109°12'17" AZ15040006-837A A&Wc, FC, FBC, AgL	ADEQ Biocriteria Program Above Forest Road 42 UGETK007.70 100545	1998 - 1 partial suite	No exceedances					Missing core parameters: <i>Escherichia coli</i> , dissolved metals (copper and zinc), and total metals (mercury, copper, and lead).
	Summary Row A&Wc Inconclusive FC Inconclusive FBC Inconclusive AgL Inconclusive	1998  1 sampling event	No exceedances				Not assessed	Insufficient monitoring data to assess.
Frye Canyon Creek headwaters - Frye Mesa Reservoir AZ15040005-988A A&Wc, FC, FBC, DWS, AgL	ADEQ Ambient Monitoring First crossing of Trail #36 UGFRY007.00 100720	1999 - 1 full suite 2000 - 2 partial suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.74 - 7.76 (78-88%)	1 of 3		Low dissolved oxygen due to naturally occurring ground water upwelling, and not anthropogenic causes. Not included in the final assessment.
	Summary Row A&Wc Inconclusive FC Inconclusive FBC Attaining DWS Inconclusive AgL Inconclusive	1999 - 2000  3 sampling events	No exceedances					ADEQ collected 3 samples in 1999-2000. Assessed as "attaining some uses" and placed on the Planning List due to missing core parameters: dissolved metals (copper, cadmium, and zinc) and total metals (mercury, arsenic, chromium, lead, and copper).
Gila River NM border - Bitter Creek AZ15040002-004 A&Ww, FC, FBC, Agl, AgL	ADEQ Ambient Monitoring Duncan at New Mexico border UGGLR205.35 100808	1999 - 1 full suite 2000 - 1 full suite 2002 - 2 full suites	Selenium (total) µg/L	2 (A&Ww chronic)	<5 - 5.8	1 of 1		Lab reporting limits for 4 additional samples were too high to use results for assessment.
	Summary Row A&Ww Inconclusive FC Attaining FBC Attaining Agl Attaining AgL Attaining	1998 - 2002  4 sampling events	Selenium (total) µg/L	2 (A&Ww chronic)	<5 - 5.8	1 of 1 event (insufficient events)	Inconclusive	ADEQ collected 4 samples in 1998 - 2002. Assessed as "attaining some uses" and placed on the Planning List due to selenium exceedance.
Gila River Skully Creek - San Francisco AZ15040002-001 A&Ww, FC, FBC, Agl, AgL	ADEQ Ambient Monitoring Above Old Safford Bridge UGGLR197.26 100809	1999 - 1 full suite 2000 - 1 full + 2 partial suites 2001 - 1 full suite 2002 - 5 full suites	Dissolved oxygen mg/L	> 6.0 (90% saturation) (A&Ww)	5.6 - 10.1 (81-130%)	1 of 9		Exceedance occurred during higher flow event.
			Lead (total) µg/L	15 (FBC)	<5 - 110	1 of 8		Exceedance occurred during higher flow event.
			Selenium (total) µg/L	2 (A&Ww chronic)	<5 - 7	3 of 3		Reporting limits of 7 other selenium samples were too high to use results for assessment.
			Turbidity NTU	50 (A&Ww)	3 - > 999	2 of 10		Both exceedances coincide with higher flow events. (Note that 4 SSC samples in 2002 did not exceed standards.)



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			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS (MEAN)	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	<b>Summary Row</b>  A&Ww      Impaired FC          Attaining FBC        Inconclusive Agl        Attaining AgL        Attaining	1999 - 2002  10 sampling events	Dissolved oxygen mg/L	> 6.0 (90% saturation) (A&Ww)	5.61 - 10.1 (81-130%)	1 of 9	Inconclusive	ADEQ collected 10 samples 1998-2002. Assessed as "impaired" due to chronic selenium exceedances.
			Lead (total) µg/L	15 (FBC)	<5 - 110	1 of 8	Inconclusive	Placed on the Planning List due to lead exceedance and low dissolved oxygen.
			Selenium (total) µg/L	2 (A&Ww chronic)	<5 - 7	3 of 3 events	Impaired	
			Turbidity NTU	50 (A&Ww)	3 - > 999	2 of 10	Attaining	
Gila River Bonita Creek - Yuma Wash AZ15040005-022 A&Ww, FC, FBC, Agl, AgL	USGS Fixed Station #09448500 Solomon above Safford Valley UGGLR188.98 100729	1998 - 6 full suites 1999 - 6 full suites 2000 - 4 full suites 2001 - 4 full suites 2002 - 4 full suites	Copper (dissolved) µg/L	varies by hardness (A&Ww chronic)	<2 - 9	1 of 23		Exceedance occurred during higher flow event.
			<i>Escherichia coli</i> CFU/100 ml	235 (FBC)	<1- 2300	3 of 23		
			Lead (total) µg/L	15 (FBC)	1 - 94	4 of 21		All exceedances coincide with higher flow events.
			Suspended sediment concentration (SSC) mg/L	80 (geometric mean) (A&Ww)	8 - 6410	see comment below		
			Turbidity NTU	50 (A&Ww)	<1-10,000	7 of 24		Four of the exceedances coincide with higher flow events.

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			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS (MEAN)	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	Summary Row	1998-2002						
	A&Ww Not attaining FC Attaining FBC Impaired Agl Attaining AgL Attaining	24 sampling events	Copper (dissolved) µg/L	varies by hardness (A&Ww chronic)	<2 - 9	1 of 23 events (4% exceed)	Attaining	USGS collected 24 samples in 1998 - 2002. Assessed as "impaired" due to <i>Escherichia coli</i> exceedances.
			<i>Escherichia coli</i> CFU	235 (FBC)	<1- 2300	3 of 8 events (in 1998 and 2000)	Impaired	"Turbidity exceedances indicate impairment based on the former standard. Reach will remain "not attaining" and placed on 4D for turbidity until sufficient turbidity or suspended sediment concentration data are collected to indicate attainment or impairment of designated uses. Turbidity and suspended sediment concentration (SSC) monitoring will be scheduled during the next monitoring cycle for this watershed.
			Lead (total) µg/L	15 (FBC)	1 - 94	4 of 21	Inconclusive	
			Suspended sediment conc. (SSC) mg/L	80 (geometric mean) (A&Ww)	8 - 6410	see comment at right	Inconclusive (see comment)	There are also potential exceedances of the SSC geometric mean standard. Despite issues applying the standard (see discussion in Chapter III), EPA is developing methods to determine base flow which may result in this reach being added to the 2004 303(d) List by EPA.
			Turbidity NTU	50 (A&Ww)	1 - 10,000	7 of 24	Not attaining (see comment*)	Also placed on the Planning list due to lead exceedances.
K P Creek headwaters - Blue River AZ15040004-029 A&Wc, FC, FBC, AgL	ADEQ Ambient Monitoring Below K P Cienega UG0KP065.54 100888	1999 - 1 partial suite	No exceedances					(Sampled on same date as other site).
	ADEQ Ambient Monitoring @ Blue River UG0KP000.08 100889	1999 - 1 partial suite 2000 - 3 partial suites 2002 - 1 full suite	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.2 - 8.9 (65 - 94%)	2 of 5		Low dissolved oxygen due to naturally occurring ground water upwelling, and not anthropogenic causes. Not included in the final assessment.
	Summary Row A&Wc Inconclusive FC Inconclusive FBC Attaining AgL Inconclusive	1999 - 2002 6 samples 5 sampling events	No exceedances					ADEQ collected 6 samples at 2 sites in 1999-2002. Assessed as "attaining some uses" and placed on the Planning List due to missing core parameters: dissolved metals (copper, cadmium, and zinc) and total metals (mercury, lead, and copper).
San Francisco River headwaters - New Mexico border AZ15040004-023 A&Wc, FC, FBC, Agl, AgL	ADEQ Fixed Station Above Luna Lake UGSFR059.98 100381	1999 - 3 full suites 2000 - 2 full suites 2001 - 3 full suites 2002 - 2 full suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	5.6 - 9.5 (72 - 100%)	1 of 10		
			Turbidity NTU	10 (A&Wc)	6 - 26	6 of 9		Two exceedances coincide with spring runoff flows.

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			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS (MEAN)	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	<b>Summary Row</b>  A&Wc      Inconclusive FC          Attaining FBC        Attaining Agl        Attaining AgL        Attaining	<b>1999 - 2002</b>  10 sampling events	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	5.6 - 9.5 (72 - 100%)	1 of 10	Attaining	ADEQ collected 10 samples in 1999-2002. Assessed as “attaining some uses” and placed on the Planning List due to exceedances of the former turbidity standard. Turbidity and suspended sediment concentration (SSC) monitoring will be scheduled during the next monitoring cycle for this watershed.
			Turbidity NTU	10 (A&Wc)	6 - 26	6 of 9	Inconclusive (see comment)	
San Francisco River New Mexico border - Blue River AZ15040004-004 A&Ww, FC, FBC, Agl, AgL	ADEQ Ambient Monitoring Near Martinez Ranch UGSFR017.66 100834	1999 - 1 partial suite 2000 - 1 full + 2 partial suites 2002 - 2 full suites	Turbidity NTU	50 (A&Ww)	7 - 74	1 of 6		
			Turbidity NTU	50 (A&Ww)	7 - 74	1 of 6	Inconclusive (see comment)	ADEQ collected 6 samples in 1999 - 2002. Assessed as “attaining some uses” and placed on the Planning List due to exceedance of the former turbidity standard. Turbidity and suspended sediment concentration (SSC) monitoring will be scheduled during the next monitoring cycle for this watershed.
San Francisco River Blue River - Limestone Gulch AZ15040004-003 A&Ww, FC, FBC, Agl, AgL	ADEQ Fixed Station 6 miles above Clifton (below mining) UGSFR011.29 100708	1999 - 2 full + 2 partial suites 2000 - 3 full + 1 partial suite 2001 - 4 full suites 2002 - 5 full suites	<i>Escherichia coli</i> CFU/100 ml	235 (FBC)	<2 - 500	1 of 13		Exceedance occurred during summer monsoon event.
			Mercury µg/L	0.6 (FC)	<0.5 - 0.75	1 of 17		Note that the exceedance occurred in one of two split samples. The other split result was less than the lab reporting limit.
			Turbidity NTU	50 (A&Ww)	1 - >999	3 of 16		Exceedances occurred during summer monsoon event.
	<b>Summary Row</b>  A&Ww      Attaining FC          Attaining FBC        Inconclusive Agl        Attaining AgL        Attaining	<b>1999-2002</b>  17 sampling events	<i>Escherichia coli</i> CFU/100 ml	235 (FBC)	<2 - 500	1 of 13 events (in 2002)	Inconclusive	ADEQ collected 17 samples in 1999-2002. Assessed as “attaining some uses” and placed on the Planning List due to <i>Escherichia coli</i> exceedance.
			Mercury µg/L	0.6 (FC)	<0.5 - 0.75	1 of 17	Attaining	
			Turbidity NTU	50 (A&Ww)	1 - > 999	3 of 16	Attaining	
San Francisco River Limestone Gulch - Gila River AZ15040004-001 A&Ww, FC, FBC, Agl, AgL	ADEQ Fixed Station Below Clifton (below mining) UGSFR003.04 100382	1998 - 3 full + 1 partial suites 1999 - 3 full + 2 partial suites 2000 - 3 full + 1 partial suites 2001 - 4 full suites 2002 - 4 full + 1 partial suites	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	<10 - 170	1 of 22		
				varies by hardness (A&Ww chronic)	<10 - 170	1 of 22		
			Dissolved oxygen mg/L	> 6.0 (90% saturation) (A&Ww)	5.2 - 10.3 (82 - 113%)	2 of 21		
			<i>Escherichia coli</i> CFU/100 ml	235 (FBC)	<2 - 545	1 of 17		Exceedance occurred during summer monsoon event.

**TABLE 21. UPPER GILA WATERSHED – 2004 ASSESSMENT MONITORING DATA**

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEARS SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS (MEAN)	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
			Lead (total) µg/L	15 (FBC)	<5 - 35	1 of 22		Exceedance occurred during summer monsoon event.
			Turbidity NTU	50 (A&Ww)	<1 - > 999	4 of 21		Two samples were related to high flow events.
	<b>Summary Row</b>  A&Ww Not attaining FC Attaining FBC Inconclusive Agl Attaining AgL Attaining	1998 - 2002  22 sampling events	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	<10 - 170	1 of 22 events (in 2000)	Inconclusive	ADEQ collected 22 samples in 1998 - 2002. Assessed as “not attaining” due to turbidity exceedances.  *Reach was on 2002 303(d) List for turbidity. Although current data are inconclusive based on the former turbidity standard, use is assessed as “not attaining” until sufficient turbidity or suspended sediment concentration data are collected to make an assessment of “attaining” or “impaired.” Turbidity and suspended sediment concentration (SSC) monitoring will be scheduled during the next monitoring cycle for this watershed.  Placed on the Planning List due to copper and <i>Escherichia coli</i> exceedances.
				varies by hardness (A&Ww chronic)	<10 - 170	1 of 22 (5% exceed)	Attaining	
			Dissolved oxygen mg/L	> 6.0 (90% saturation) (A&Ww)	5.2 - 10.3 (82 - 113%)	2 of 21	Attaining	
			<i>Escherichia coli</i> CFU/100 ml	235 (FBC)	<2 - 545	1 of 17 events (in 2002)	Inconclusive	
			Lead (total) µg/L	15 (FBC)	<5 - 35	1 of 22	Attaining	
			Turbidity NTU	50 (A&Ww)	1 - > 999	4 of 21	Inconclusive (Not attaining*)	
Turkey Creek headwaters - Campbell Blue Ck AZ15040004-060 A&Wc, FC, FBC, AgL	ADEQ TMDL Program Above Campbell Blue (Site 1) UGTRY000.17 101180	2001 - 4 field	No exceedances					
	<b>Summary Row</b>  A&Wc Inconclusive FC Inconclusive FBC Inconclusive AgL Inconclusive	2001  4 sampling events	No exceedances					ADEQ collected four field samples in 2001. Assessed as “inconclusive” and placed on the Planning List due to missing core parameters: <i>Escherichia coli</i> , dissolved metals (cadmium, copper, and zinc), and total metals (mercury, copper, and lead).
<b>LAKES MONITORING DATA</b>								
Cluff Pond #3 AZL15040005-0370 A&Ww, FC, FBC, Agl, AgL	AGFD Routine Monitoring UGCRC - MID (mid lake)	2001 - 1 partial suite	No exceedances					Missing core parameters: <i>Escherichia coli</i> , total boron, dissolved metals (copper, cadmium, and zinc), and total metals (mercury, manganese, copper, and lead).
	<b>Summary Row</b> A&Ww Inconclusive FC Inconclusive FBC Inconclusive Agl Inconclusive AgL Inconclusive	2001  1 sampling event					Not assessed	Insufficient monitoring data to assess.

**TABLE 21. UPPER GILA WATERSHED – 2004 ASSESSMENT MONITORING DATA**

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEARS SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS (MEAN)	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
Dankworth Ponds AZL15040005-0440 A&Wc, FC, FBC	ADEQ Lakes Program UGDAN-A 100018	1999 - 1 partial suite 2000 - 3 partial suites	Dissolved oxygen mg/L	7.0 (90% saturation) (A&Wc)	4.4 - 8.1 (50 - 102%)	1 of 4		Low dissolved oxygen due to naturally occurring ground water upwelling, and not anthropogenic causes. Not included in the final assessment.  Lab reporting limits for 3 other selenium samples were too high to use results for chronic standards assessment but sufficient for acute standards.  Note that duplicate selenium sample did not exceed standards
			Selenium µg/L	2 (A&Wc chronic)	<5 - 25	1 of 1		
				20 (A&Wc acute)		1 of 4		
			Turbidity NTU	10 (A&Wc)	1 - 27	1 of 2		
	ADEQ Lakes Program UGDAN-B 100987	1999 - 1 field	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	4.4 (50%)	1 of 1		
	ADEQ Lakes Program UGDAN-Spring 1 (pond) 100988	1999 - 1 partial suite 2000 - 3 partial suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	3.5 - 3.95 (51 - 59%)	4 of 4		
	ADEQ Lakes Program UGDAN-Springs 2, 3, 4 100990, 100991, 100992	1999 - 1 partial suite (at 3 springs)	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	0.2 - 2.6 (2 - 42%)	3 of 3		
	Summary Row  A&Wc      Inconclusive FC          Attaining FBC          Inconclusive	1999 - 2000  12 samples 4 sampling events	Selenium µg/L	2 (A&Wc chronic)	<5 - 25	1 of 1 event (insufficient events)	Inconclusive	ADEQ collected 12 samples at 4 sites in 1999-2000. Assessed as "attaining some uses" and placed on the Planning List due to exceedances of selenium and missing core parameters: <i>Escherichia coli</i> and dissolved metals (copper, cadmium, and zinc).  *Also on the Planning List due to exceedances of the former turbidity standard. Investigation into the causes and sources of turbidity will be scheduled during the next monitoring cycle for this watershed.
				20 (A&Wc acute)		1 of 4 events (in 2000)	Inconclusive	
			Turbidity NTU	10 (A&Wc)	1 - 27	1 of 2	Inconclusive (see comment*)	
Luna Lake AZL15040004-0840 A&Wc, FC, FBC, AgL	AGFD Routine Monitoring UGLUN - A (dam site)	1998 - 3 partial suites	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	6.5 - 8.0 (87 - 99%)	1 of 3		
			pH SU	6.5 - 9.0 (A&Wc, FBC, AgL)	8.4 - 9.9	2 of 3		
	Alpine/Luna Lake Watershed Group 319 Project UGLUN-L1 (wildlife restricted area)	2001 - 4 field 2002 - 8 field	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	2 - 13.4 (22-152%)	5 of 9		
			pH SU	6.5 - 9.0 (A&Wc, FBC, AgL)	8.4 - 9.5	5 of 12		
	Alpine/Luna Lake Watershed Group 319 Project UGLUN - L2 (north of fishing dock)	2001 - 4 field 2002 - 8 field	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	2 - 11.8 (22-130%)	4 of 10		
			pH SU	6.5 - 9.0 (A&Wc, FBC, AgL)	8.7 - 9.5	4 of 12		

**TABLE 21. UPPER GILA WATERSHED – 2004 ASSESSMENT MONITORING DATA**

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEARS SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS (MEAN)	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	Alpine/Luna Lake Watershed Group 319 Project UGLUN - L3  (3 meters above dam)	2001 - 4 field 2002 - 8 field	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	1.7 - 12.7 (18.6- 140%)	4 of 10		Note samples were taken on the same date at the two ADEQ sites.
			pH SU	6.5 - 9.0 (A&Wc, FBC, AgL)	8.6 - 9.6	5 of 12		
	ADEQ Lakes Program UGLUN-A (dam site) 100036	1999 - 1 partial suite 2002 - 1 partial suite	No exceedances					
	ADEQ Lakes Program UGLUN-B (mid lake) 100979	1999 - 1 partial suite 2002 - 1 partial suite	No exceedances					
	<b>Summary Row</b>  A&Wc Not attaining FC Inconclusive FBC Not attaining AgL Not attaining	<b>1998 - 2002</b>  43 samples 18 sampling events	Dissolved oxygen mg/L	> 7.0 (90% saturation) (A&Wc)	1.7 - 13.4 (18.6 - 152)	14 of 43	Not attaining	A total of 43 samples were collected at 6 sites by ADEQ, AGFD, and the Alpine/Luna Lake Watershed Group (for a 319 implementation project) in 1998 - 2001.  A nutrient TMDL to address pH and dissolved oxygen problems was approved by EPA in 2000. Assessed as "not attaining" due to low dissolved oxygen and pH exceedances.  Placed on the Planning List due to a fish kill in 1999. Fish kill may be evidence of a narrative standard violation.  Also placed on the Planning List for TMDL-follow up monitoring and missing core parameters: turbidity, <i>Escherichia coli</i> , dissolved metals (copper, cadmium, zinc), and total metals (mercury, copper, and lead).
			pH SU	6.5 - 9.0 (A&Wc, FBC, AgL)	8.4 - 9.93	16 of 43	Not attaining	
Roper Lake AZL15040006-1250 A&Ww, FC, FBC	ADEQ Lakes Program UGROP - A (dam site) 100080	1998 - 1 partial suites 2000 - 3 partial suites	No exceedances					
	ADEQ Lakes Program UGROP - B (mid lake) 100975	1999 - 1 suite 2000 - 1 suites	No exceedances					
	ADEQ Lakes Program UGROP - Pond 100976	1999 - 1 suite 2000 - 2 suites	No exceedances					
	ADEQ Lakes Program UGROP - Canal 100978	2000 - 3 suites	No exceedances					
	<b>Summary Row</b>  A&Ww Attaining FC Attaining FBC Inconclusive	<b>1998-2000</b>  12 samples 5 sampling events	No exceedances					ADEQ collected 12 samples at 4 sites in 1998-2000. Assessed as "attaining some uses" and placed on the Planning List due to missing core parameter: <i>Escherichia coli</i> .

TABLE 22. UPPER GILA WATERSHED -- ASSESSMENT, PLANNING LIST, AND 303(d) STATUS TABLE				
SURFACE WATER DESCRIPTION	2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS	2004 PLANNING LIST	STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST	OTHER INFORMATION
<b>UPPER GILA WATERSHED -- STREAM ASSESSMENTS</b>				
Ash Creek unnamed tributary at 32E45'37"/109E52'22" - Gila River 15 miles AZ15040005-040B (Reach was split into warmwater and coldwater segments since last assessment. No current data in 040A.)	A&Ww Inconclusive FC Attaining FBC Attaining AgL Attaining Category 2 -- Attaining Some Uses	On the Planning List due to <u>missing core parameters</u> : dissolved metals (cadmium, copper and zinc).		
Blue River New Mexico border - KP Creek 21 miles AZ15040004-026	A&Wc Inconclusive FC Inconclusive FBC Attaining AgL Inconclusive AgL Inconclusive Category 2 -- Attaining Some Uses	On the Planning List due to <u>missing core parameters</u> : total boron, dissolved metals (copper, cadmium, and zinc), and total metals (mercury, manganese, lead, and copper).		
Blue River KP Creek - Strayhorse Creek 4 miles AZ15040004-025A (Reach was split into warmwater and coldwater segments since last assessment.)	A&Wc Inconclusive FC Inconclusive FBC Attaining AgL Inconclusive AgL Inconclusive Category 2 -- Attaining Some Uses	On the Planning List due to <u>missing core parameters</u> : total boron, total metals (mercury, manganese, lead, and copper), and dissolved metals (copper, cadmium, and zinc).		
Blue River Strayhorse Creek - San Francisco River 25 miles AZ15040004-025B (Reach was split into warmwater and coldwater segments since last assessment.)	A&Ww Attaining FC Attaining FBC Attaining AgL Attaining AgL Attaining Category 1 -- Attaining All Uses			
Bonita Creek Park Creek - Gila River 15 miles AZ15040005-030 Unique Water	A&Ww Attaining FC Attaining FBC Attaining DWS Attaining AgL Attaining Category 1 -- Attaining All Uses			
Campbell Blue Creek headwaters - Blue River 20 miles AZ15040004-028	A&Wc Inconclusive FC Attaining FBC Attaining AgL Attaining Category 2 -- Attaining Some Uses	On the Planning List due to <u>missing core parameter</u> : dissolved copper.		
Cave Creek headwaters - South Fork of Cave Creek 8 miles AZ15040006-852A Unique Water (Reach was split into warmwater and coldwater segments since last assessment.)	A&Wc Inconclusive FC Attaining FBC Attaining AgL Attaining AgL Attaining Category 2 -- Attaining Some Uses	On the Planning List due to <u>chronic selenium</u> exceedances (2 of 2 sampling events).		

**TABLE 22. UPPER GILA WATERSHED -- ASSESSMENT, PLANNING LIST, AND 303(d) STATUS TABLE**

SURFACE WATER DESCRIPTION	2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS	2004 PLANNING LIST	STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST	OTHER INFORMATION
Cave Creek South Fork of Cave Creek - USFS boundary 2 miles AZ15040006-852B Unique Waters (Reach was split into warmwater and coldwater segments since last assessment.)	A&Ww Inconclusive FC Attaining FBC Attaining Agl Attaining AgL Attaining Category 2 -- Attaining Some Uses	On the Planning List due to former turbidity standard exceedance (1 of 9 samples). Turbidity and suspended sediment concentration (SSC) monitoring will be scheduled during the next monitoring cycle for this watershed.		
Cave Creek, <u>North Fork</u> headwaters - Cave Creek 6 miles AZ15040006-856	A&Wc Inconclusive FC Inconclusive FBC Inconclusive Category 3 — Inconclusive (not assessed)	On the Planning List due to insufficient monitoring data to assess (only 1 sample).		
Cave Creek, <u>South Fork</u> headwaters - Cave Creek 8 miles AZ15040006-849 Unique Water	A&Wc Attaining FC Attaining FBC Inconclusive Agl Attaining AgL Attaining Category 2 -- Attaining Some Uses	On the Planning List due to <i>Escherichia coli</i> exceedance (1 of 10 sampling events, occurred in 2000).		
Eagle Creek headwaters - unnamed tributary at 33°23'24"/109°29'35" 12 miles AZ15040005-028A (Reach was split into warmwater and coldwater segments since last assessment. No current data in 028B.)	A&Wc Inconclusive FC Inconclusive FBC Attaining DWS Inconclusive Agl Inconclusive AgL Inconclusive Category 2 -- Attaining Some Uses	On the Planning List due to <u>missing core parameters</u> : total boron, total metals (mercury, arsenic, chromium, lead, manganese, and copper), and dissolved metals (copper, cadmium, and zinc).		
Eagle Creek Willow Creek - Sheep Wash 6 miles AZ15040005-027	A&Ww Attaining FC Attaining FBC Attaining DWS Attaining Agl Attaining AgL Attaining Category 1 -- Attaining All Uses			
Eagle Creek Sheep Wash - Gila River 25 miles AZ15040005-025	A&Ww Attaining FC Attaining FBC Attaining DWS Attaining Agl Attaining AgL Attaining Category 1 -- Attaining All Uses			
East Turkey Creek headwaters - unnamed tributary at 31°58'22"/109°12'17" 8 miles AZ15040006-837A (Reach was split into warmwater and coldwater segments since last assessment. No current data in 837B.)	A&Wc Inconclusive FC Inconclusive FBC Inconclusive Agl Inconclusive Category 3 - Inconclusive (not assessed)	On the Planning List due to insufficient monitoring data to assess (only 1 sample).		



**TABLE 22. UPPER GILA WATERSHED -- ASSESSMENT, PLANNING LIST, AND 303(d) STATUS TABLE**

SURFACE WATER DESCRIPTION	2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS	2004 PLANNING LIST	STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST	OTHER INFORMATION
Frye Canyon Creek headwaters - Frye Mesa Reservoir 5 miles AZ15040005-988A (Reach was split into warmwater and coldwater segments since last assessment. No current data in 988B.)	A&Wc Inconclusive FC Inconclusive FBC Attaining DWS Inconclusive AgL Inconclusive Category 2 -- Attaining Some Uses	On the Planning List due to <u>missing core parameters</u> : dissolved metals (copper, cadmium, and zinc) and total metals (mercury, arsenic, chromium, lead, and copper).		
Gila River New Mexico border - Bitter Creek 16 miles AZ15040002-004	A&Ww Inconclusive FC Attaining FBC Attaining AgL Attaining Category 2 -- Attaining Some Uses	On the Planning List due to <u>chronic selenium</u> exceedance (1 of 1 sampling event).  <u>Remove turbidity</u> from Planning List as turbidity is attaining standards (no exceedances in 4 samples).		
Gila River Skully Creek - San Francisco River 15 miles AZ15040002-001	A&Ww Impaired FC Attaining FBC Inconclusive AgL Attaining AgL Attaining Category 5 -- Impaired	On the Planning List due to: 1. Low <u>dissolved oxygen</u> (1 of 9 samples). 2. <u>Lead</u> exceedance (1 of 8 samples).	<u>Add selenium</u> to the 303(d) List due to chronic selenium exceedances (3 of 3 sampling events). (Note that the lab reporting limits on 7 other selenium samples were too high to assess the chronic standard, so the samples could not be included in the assessment.)	
Gila River San Francisco River - Eagle Creek 3 miles AZ15040005-024	A&Ww Not attaining FC Inconclusive FBC Inconclusive AgL Inconclusive AgL Inconclusive Category 4D -- Not attaining	On the Planning List. No current monitoring data. Added to the Planning List in 2002 due to former <u>turbidity</u> standard exceedances (12 of 12 samples). Turbidity and suspended sediment concentration (SSC) monitoring will be scheduled during the next monitoring cycle for this watershed.		To be consistent with other assessments, this reach is included as a Category 4D water (not attaining) and added to the Planning List for the following reasons: 1. Arizona is assessing all waters that are "impaired" under the former <u>turbidity</u> standard (repealed in 2002) "not attaining" until sufficient turbidity or suspended sediment concentration (new sediment standard) data are collected to make an assessment of "attaining" or "impaired." 2. For the 2002 303(d) List, EPA determined that 5 or more exceedances with less than 20 samples were sufficient to list a water as "impaired", although Arizona's Impaired Waters Identification Rule would require a minimum of 20 samples. 3. Turbidity exceeded standards in 12 of 12 samples. (Only older data available.)  EPA may use exceedances of the former turbidity standard as an indicator of narrative standards violations and place this reach on the 2004 303(d) List due to turbidity.

**TABLE 22. UPPER GILA WATERSHED -- ASSESSMENT, PLANNING LIST, AND 303(d) STATUS TABLE**

SURFACE WATER DESCRIPTION	2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS	2004 PLANNING LIST	STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST	OTHER INFORMATION
Gila River Eagle Creek - Bonita Creek 10 miles AZ15040005-023	A&Ww Not attaining FC Inconclusive FBC Inconclusive Agl Inconclusive AgL Inconclusive Category 4D -- Not attaining	On the Planning List. No current monitoring data. Added in 2002 due to former <u>turbidity</u> standard exceedances (9 of 12 samples). Turbidity and suspended sediment concentration (SSC) monitoring will be scheduled during the next monitoring cycle for this watershed.		To be consistent with other assessments, this reach will be included as a Category 4D water (not attaining) and added to the Planning List for the following reasons: 1. Arizona is assessing all waters that are "impaired" under the former <u>turbidity</u> standard (repealed in 2002) "not attaining" until sufficient turbidity or suspended sediment concentration (new sediment standard) data are collected to make an assessment of "attaining" or "impaired." 2. For the 2002 303(d) List, EPA determined that 5 or more exceedances with less than 20 samples were sufficient to list a water as "impaired", although Arizona's Impaired Waters Identification Rule would require a minimum of 20 samples. 3. Turbidity exceeded standards in 9 of 12 samples. (Only older data available.)  EPA may use exceedances of the former turbidity standard as an indicator of narrative standards violations and place this reach on the 2004 303(d) List due to turbidity.
Gila River Bonita Creek - Yuma Wash 6 miles AZ15040005-022	A&Ww Not attaining FC Attaining FBC Impaired Agl Attaining AgL Attaining Category 5 -- Impaired	On the Planning List due to: 1. <u>Lead</u> exceedances (4 of 21 samples). 2. Former <u>turbidity</u> standard exceedances (7 of 24 samples) and potential exceedances of the <u>suspended sediment concentration</u> (SSC) geometric mean standard. Turbidity and SSC monitoring will be scheduled during the next monitoring cycle for this watershed.	Add <u>Escherichia coli</u> to the 303(d) List due to exceedances in 2 of 8 sampling events.  <u>Delist turbidity</u> . Standard repealed in 2002. Assessed turbidity as "not attaining" and placed in category 4D. Although current turbidity data are inconclusive (7 of 24 samples exceed), reach will remain "not attaining" until sufficient turbidity or suspended sediment concentration (new sediment standard) data are collected to make an assessment of "attaining" or "impaired."	Despite issues applying the SSC standard (see discussion in Chapter III), EPA is developing methods to determine base flow which may result in this reach being added to the 2004 303(d) List by EPA.  EPA may also use exceedances of the former turbidity standard as an indicator of narrative standards violations and place this reach on the 2004 303(d) List due to turbidity.
K P Creek headwaters - Blue River 12 miles AZ15040004-029 Unique Water	A&Wc Inconclusive FC Inconclusive FBC Attaining Agl Inconclusive Category 2 -- Attaining Some Uses	On the Planning List due to <u>missing core parameters</u> : dissolved metals (copper cadmium, and zinc) and total metals (mercury, lead, and copper).		

**TABLE 22. UPPER GILA WATERSHED -- ASSESSMENT, PLANNING LIST, AND 303(d) STATUS TABLE**

SURFACE WATER DESCRIPTION	2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS	2004 PLANNING LIST	STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST	OTHER INFORMATION
San Francisco River headwaters - New Mexico border 13 miles AZ15040004-023	A&Wc Not attaining FC Attaining FBC Attaining Agl Attaining AgL Attaining Category 4D – Not attaining	On the Planning List due to former <u>turbidity</u> standard exceedances (6 of 9 samples). Turbidity and suspended sediment concentration (SSC) monitoring will be scheduled during the next monitoring cycle for this watershed.  <u>Remove dissolved oxygen</u> from the Planning List, as current data indicate that uses are being attained (only 1 of 10 samples did not meet the standard).		To be consistent with other assessments, this reach should be included as a Category 4D water (not attaining) and added to the Planning List for the following reasons: 1. Arizona is assessing all waters that are "impaired" under the former <u>turbidity</u> standard (repealed in 2002) "not attaining" until sufficient turbidity or suspended sediment concentration (new sediment standard) data are collected to make an assessment of "attaining" or "impaired." 2. For the 2002 303(d) List, EPA determined that 5 or more exceedances with less than 20 samples were sufficient to list a water as "impaired", although Arizona's Impaired Waters Identification Rule would require a minimum of 20 samples. 3. Turbidity exceeded standards in 6 of 9 samples.  EPA may also use exceedances of the former turbidity standard as an indicator of narrative standards violations and place this reach on the 2004 303(d) List due to turbidity.
San Francisco River New Mexico border - Blue River 21 miles AZ15040004-004	A&Ww Inconclusive FC Attaining FBC Attaining Agl Attaining AgL Attaining Category 2 -- Attaining Some Uses	On the Planning List due to former <u>turbidity</u> standard exceedance (1 of 6 samples). Turbidity and suspended sediment concentration (SSC) monitoring will be scheduled during the next monitoring cycle for this watershed.		
San Francisco River Blue River - Limestone Gulch 19 miles AZ15040004-003	A&Ww Attaining FC Attaining FBC Inconclusive Agl Attaining AgL Attaining Category 2 -- Attaining Some Uses	On the Planning List due to <u>Escherichia coli</u> exceedance (1 of 13 sampling events, occurred in 2002).  <u>Remove turbidity and beryllium</u> from the Planning List. Data indicate that uses are being attained. Turbidity exceeded standards in only 3 of 16 samples. Arizona's beryllium standard was modified in 2002, and beryllium is not exceeding the new standards.		
San Francisco River Limestone Gulch - Gila River 13 miles AZ15040004-001	A&Ww Not attaining FC Attaining FBC Inconclusive Agl Attaining AgL Attaining Category 4D – Not attaining	On the Planning List due to: 1. <u>Acute copper</u> exceedance (1 of 22 sampling events, occurred in 2000). 2. <u>Escherichia coli</u> exceedance (1 of 17 sampling events, occurred in 2002). 3. Former <u>turbidity</u> standard exceedances (4 of 21 samples). Turbidity and suspended sediment concentration (SSC) monitoring will be scheduled during the next monitoring cycle for this watershed.	<u>Delist turbidity</u> . Standard was repealed in 2002. Assessed turbidity as "not attaining" and placed in category 4D. Although current turbidity data are inconclusive (4 of 21 samples exceed), reach will remain "not attaining" until sufficient turbidity or suspended sediment concentration (new sediment standard) data are collected to make an assessment of "attaining" or "impaired."	EPA may also use exceedances of the former turbidity standard as an indicator of narrative standards violations and place this reach on the 2004 303(d) List due to turbidity.
Turkey Creek headwaters - Campbell Blue Creek 5 miles AZ15040004-060	A&Wc Inconclusive FC Inconclusive FBC Inconclusive Agl Inconclusive Category 3 — Inconclusive	On the Planning List due to <u>missing core parameters</u> : <u>Escherichia coli</u> , dissolved metals (cadmium, copper, and zinc), and total metals (mercury, copper, and lead).		

TABLE 22. UPPER GILA WATERSHED -- ASSESSMENT, PLANNING LIST, AND 303(d) STATUS TABLE				
SURFACE WATER DESCRIPTION	2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS	2004 PLANNING LIST	STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST	OTHER INFORMATION
<b>UPPER GILA WATERSHED -- LAKE ASSESSMENTS</b>				
Cluff Pond #3 15 acres AZL15040005-0370	A&Ww Inconclusive FC Inconclusive FBC Inconclusive AgI Inconclusive AgL Inconclusive Category 3 -- Inconclusive (not assessed) Trophic status not calculated	On the Planning List due to insufficient monitoring data to assess (only 1 sample).		
Dankworth Ponds 8 acres AZL15040005-0440	A&Wc Inconclusive FC Attaining FBC Inconclusive Category 2 -- Attaining Some Uses Trophic status -- Mesotrophic	On the Planning List due to: 1. <u>Acute selenium</u> exceedance (1 of 4 sampling events, occurred in 2000). 2. Former <u>turbidity</u> standard exceedance (1 of 2 samples). Investigation into the causes and sources of turbidity will be investigated during the next monitoring cycle for this watershed. 3. <u>Missing core parameters</u> : <i>Escherichia coli</i> and dissolved metals (copper, cadmium, and zinc).		
Luna Lake 120 acres AZL15040004-0840	A&Wc Not attaining FC Inconclusive FBC Not attaining AgL Not attaining Category 4A -- Not Attaining  Trophic status -- Eutrophic	On the Planning List for: 1. TMDL follow-up monitoring for low <u>dissolved oxygen</u> (14 of 43 samples) and <u>high pH</u> (16 of 43 samples). 2. <u>Missing core parameters</u> : <i>Escherichia coli</i> , turbidity, dissolved metals (copper, cadmium, and zinc), and total metals (mercury, copper, and lead). 3. <u>Fish kill</u> in 1999.		Nutrient TMDL to address low <u>dissolved oxygen</u> , <u>high pH</u> , and <u>recurrent fish kills</u> was approved by EPA in 2000. Placed on the Planning List in 2002 for TMDL follow-up monitoring.  Fish kill in 1999 due to algal bloom die-off and associated high pH and low dissolved oxygen. This may be evidence of a narrative nutrient standard violation.
Roper Lake 25 acres AZL15040006-1250	A&Ww Attaining FC Attaining FBC Inconclusive Category 2 -- Attaining Some Uses  Trophic status -- Mesotrophic	On the Planning List due to <u>missing core parameter</u> : <i>Escherichia coli</i> .		